FIG.1

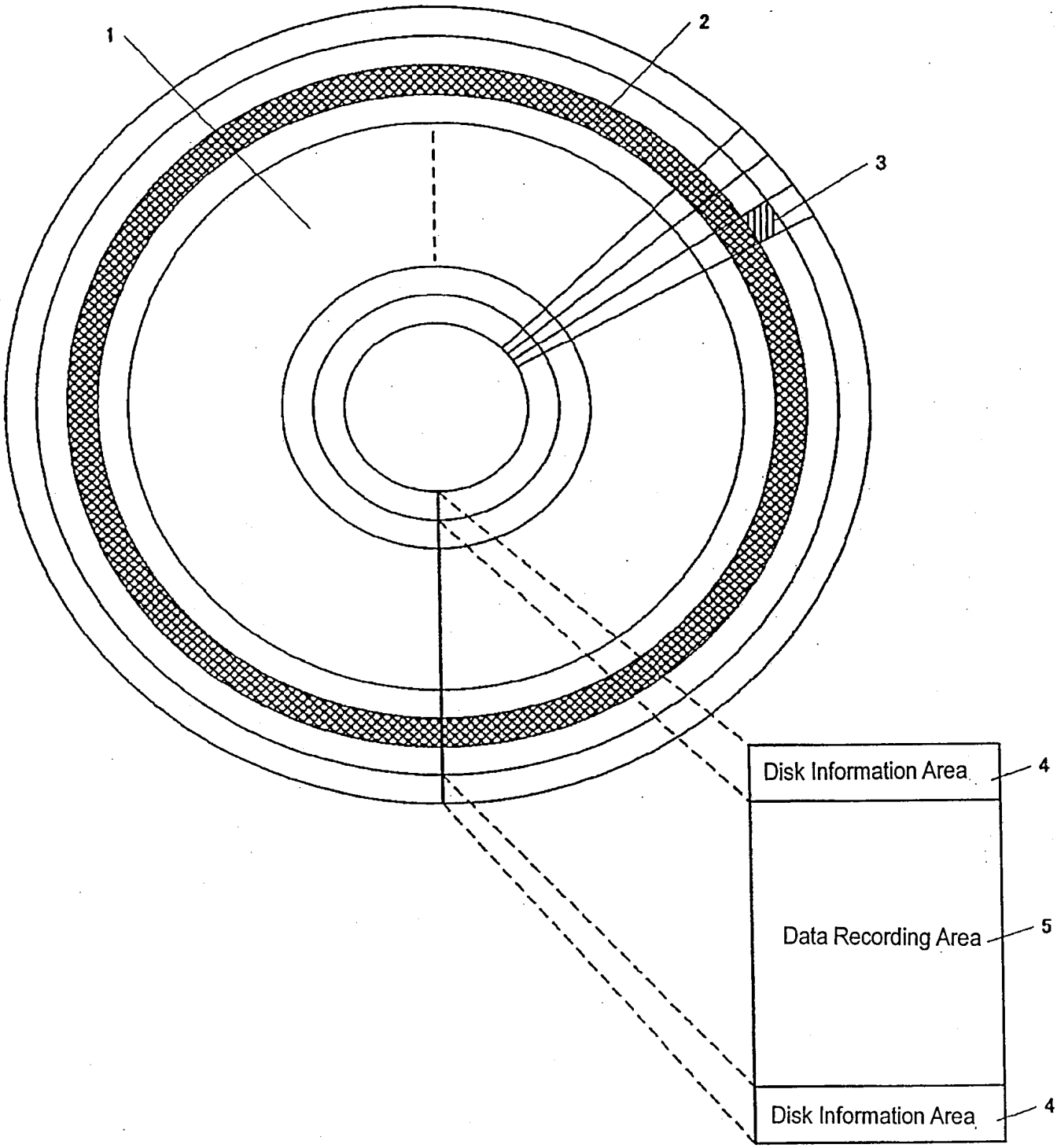

1
2
3
Disk Information Area
4
Data Recording Area
5
Disk Information Area
4

FIG.2

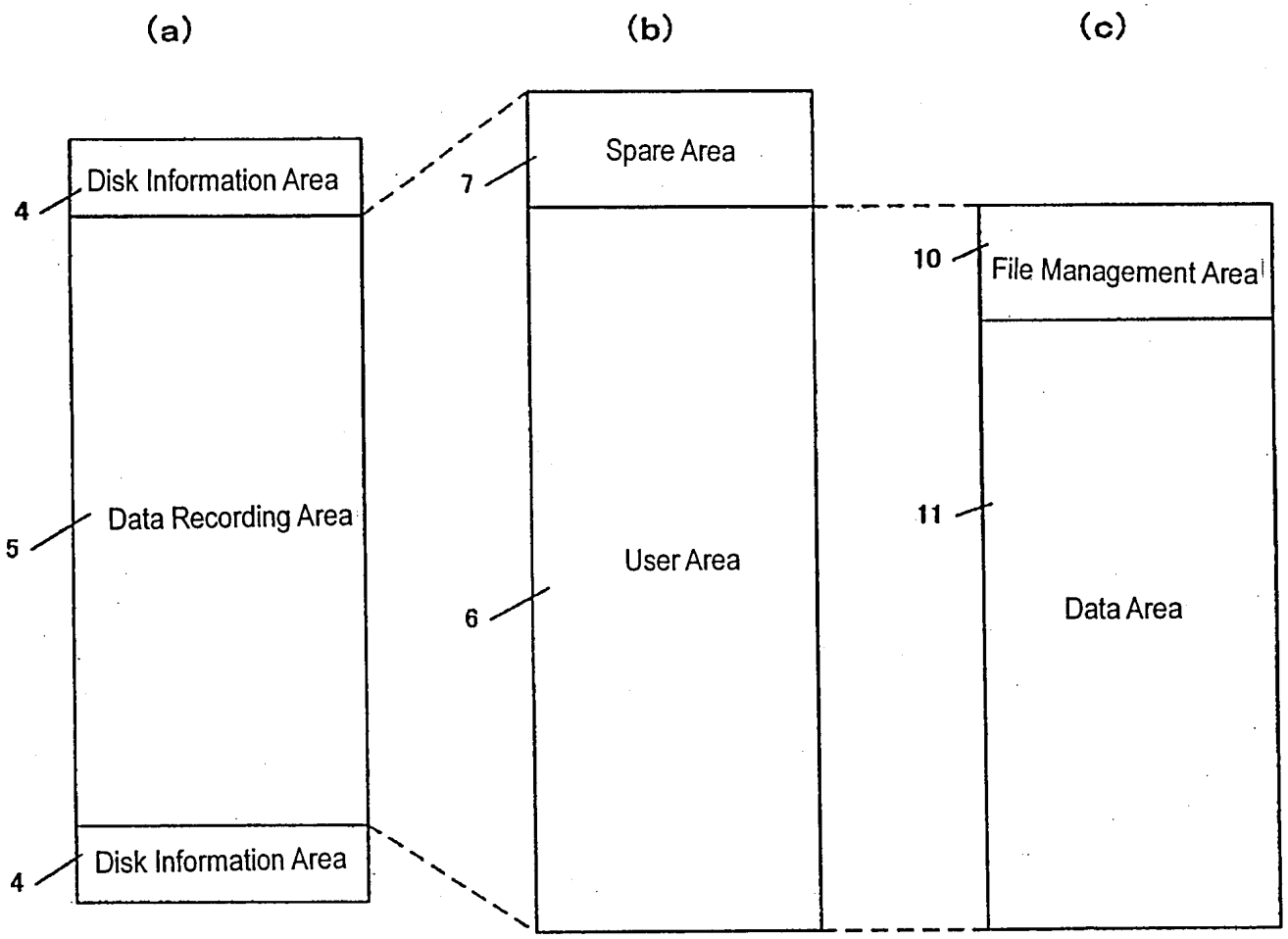

(a)
(b)
(c)
4
Disk Information Area
5
Data Recording Area
4
Disk Information Area
7
Spare Area
6
User Area
10
File Management Area
11
Data Area

FIG.3

Defect List

21

	Header (Total Number of Entries, etc.)	
First Entry	Physical Sector Number of First Defective Sector	Physical Sector Number of First Substitute Sector
Second Entry	Physical Sector Number of Second Defective Sector	Physical Sector Number of Second Substitute Sector
Third Entry	Physical Sector Number of Third Defective Sector	Physical Sector Number of Third Substitute Sector
	⋮	⋮
n^{th} Entry	Physical Sector Number of n^{th} Defective Sector	Physical Sector Number of n^{th} Substitute Sector

FIG.4

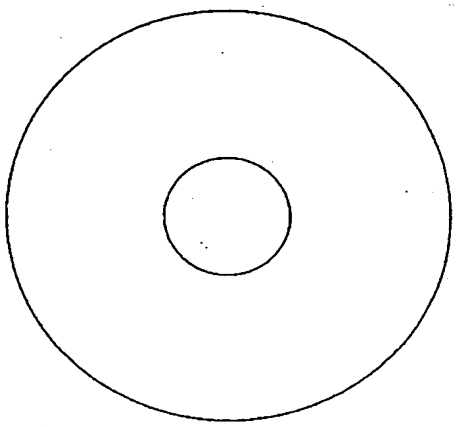


FIG.5

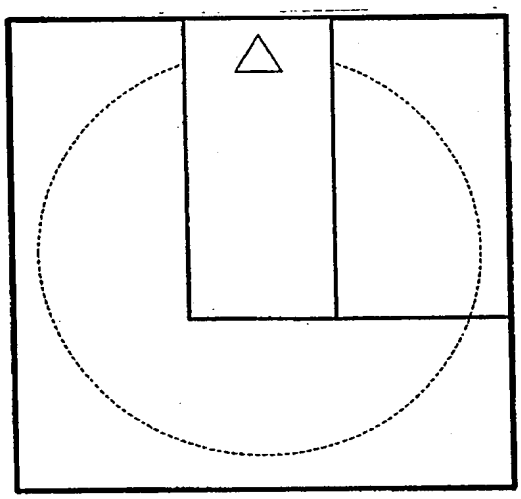


FIG.6

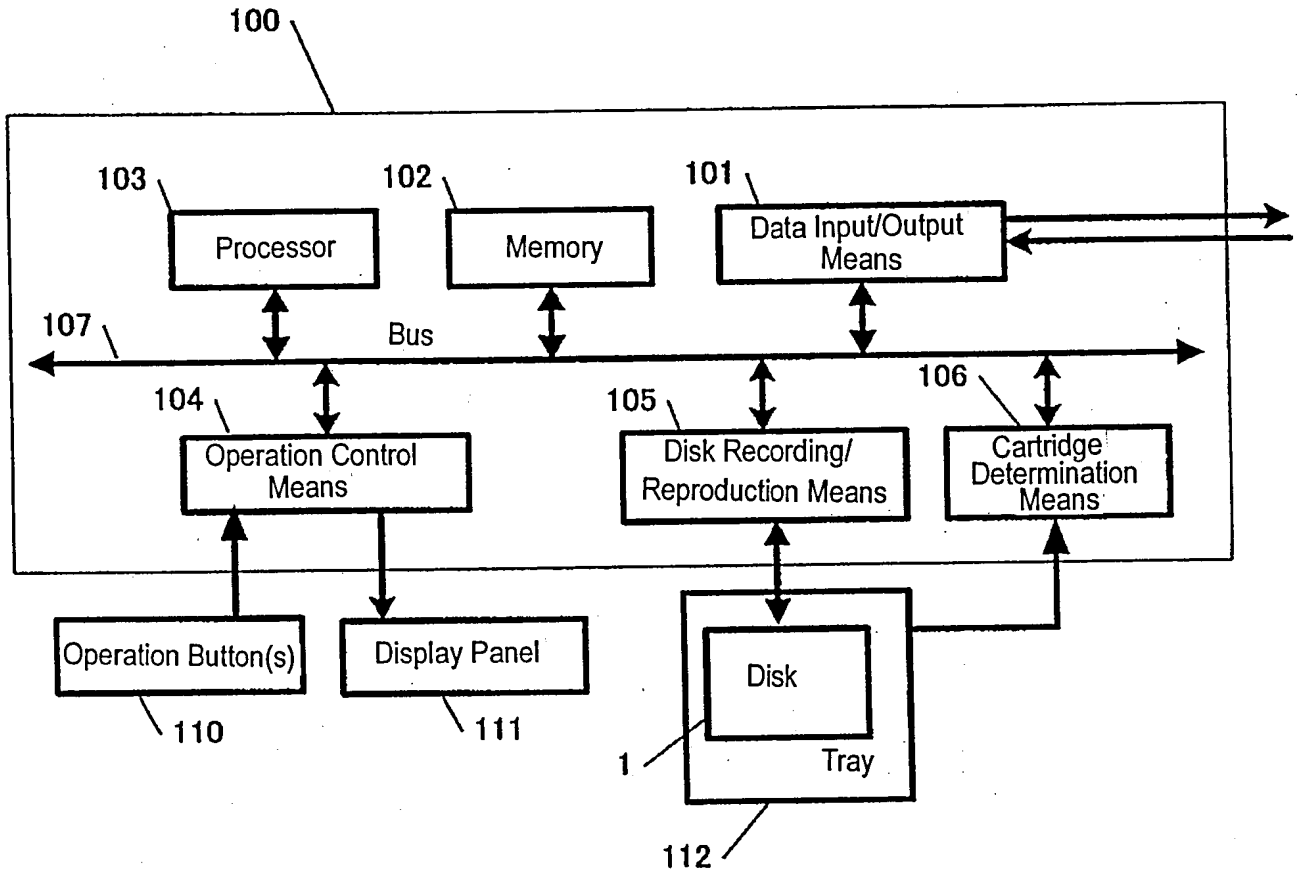

100
103
Processor
102
Memory
101
Data Input/Output Means
107
Bus
104
Operation Control Means
105
Disk Recording/ Reproduction Means
106
Cartridge Determination Means
Operation Button(s)
110
Display Panel
111
Disk
Tray
1
112

FIG.7

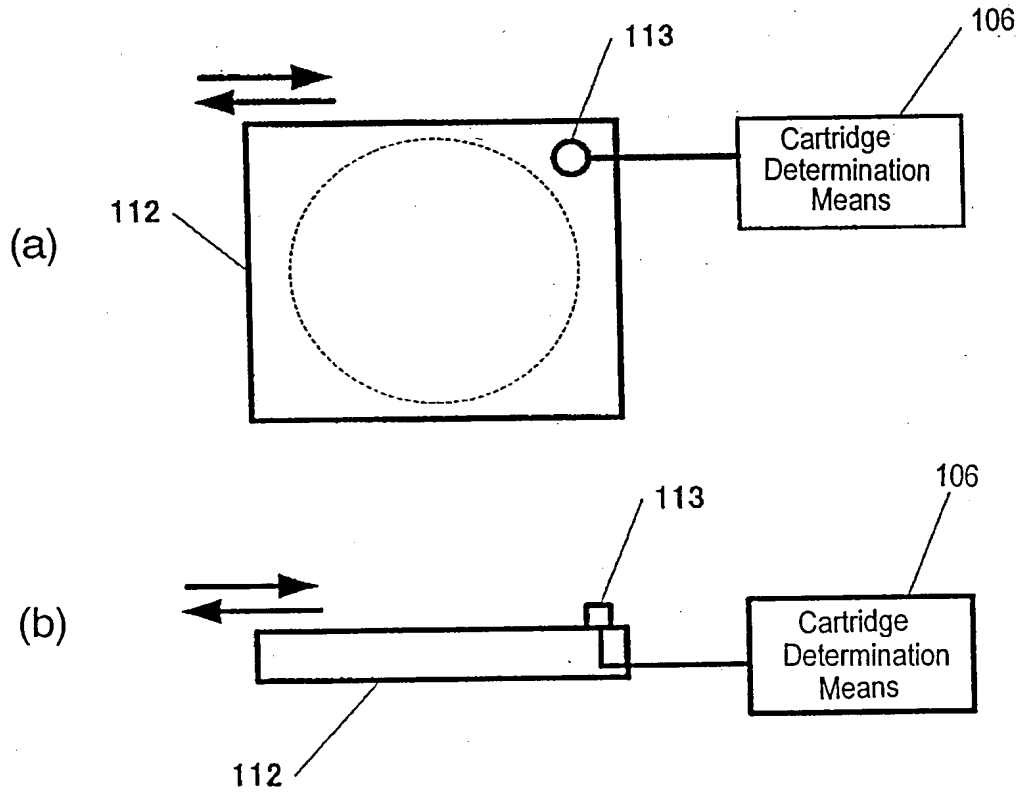

(a)
112
113
106
Cartridge Determination Means
(b)
112
113
106
Cartridge Determination Means

FIG.8

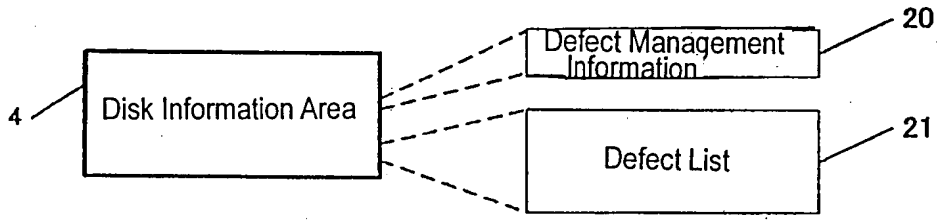

4
Disk Information Area
Defect Management Information
20
Defect List
21

FIG.9

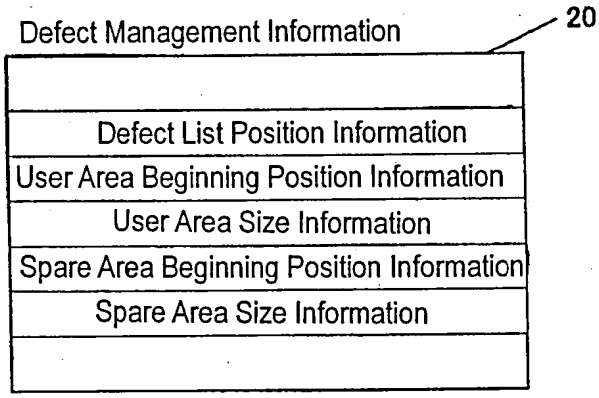

Defect Management Information
20
Defect List Position Information
User Area Beginning Position Information
User Area Size Information
Spare Area Beginning Position Information
Spare Area Size Information

FIG.10

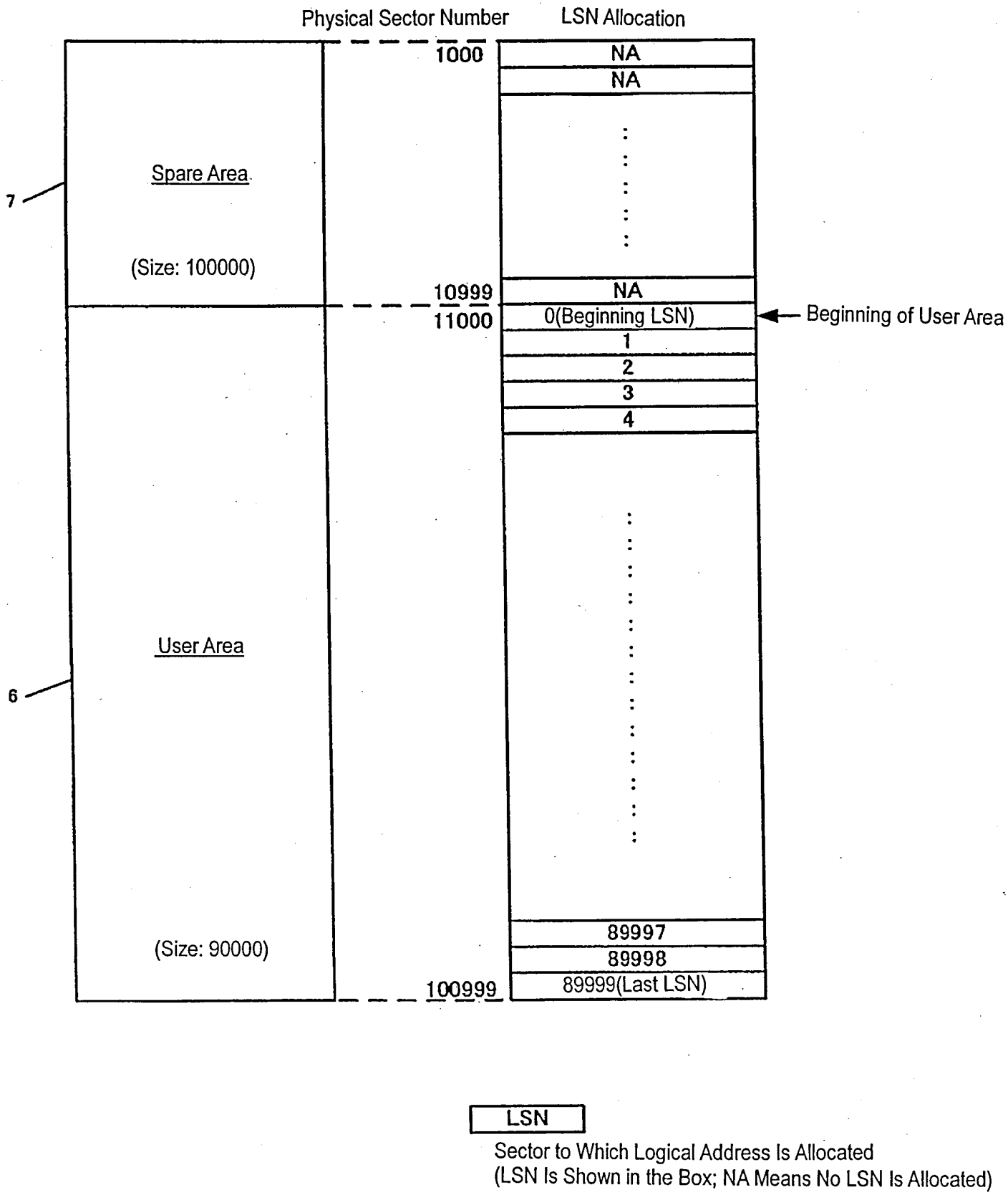

Physical Sector Number
LSN Allocation
1000
NA
NA
Spare Area
7
(Size: 100000)
10999
NA
11000
0(Beginning LSN)
Beginning of User Area
1
2
3
4
User Area
6
89997
89998
(Size: 90000)
100999
89999(Last LSN)
LSN
Sector to Which Logical Address Is Allocated
(LSN Is Shown in the Box; NA Means No LSN Is Allocated)

FIG. 11

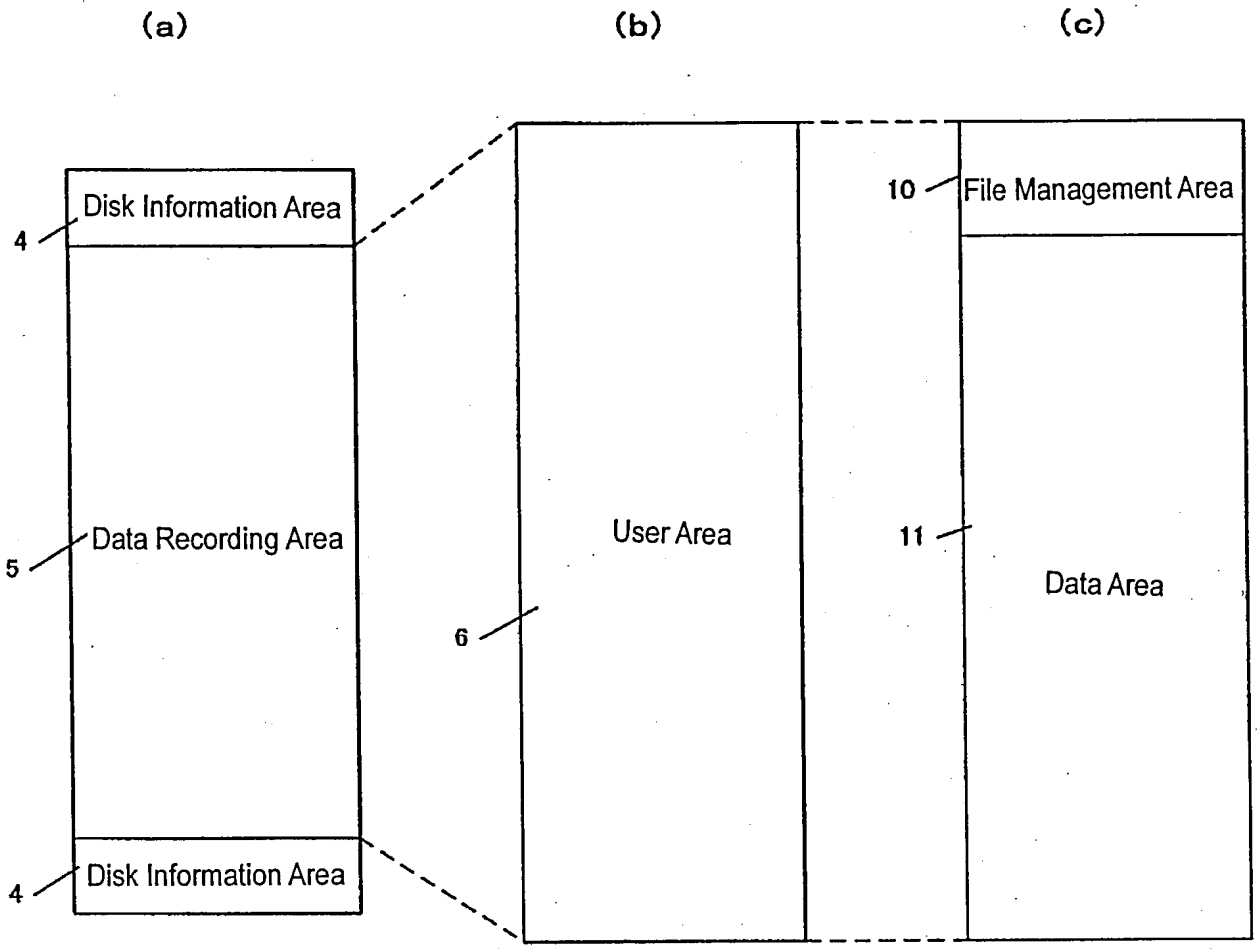

(a)
(b)
(c)
Disk Information Area
4
Data Recording Area
5
Disk Information Area
4
User Area
6
File Management Area
10
Data Area
11

FIG. 12

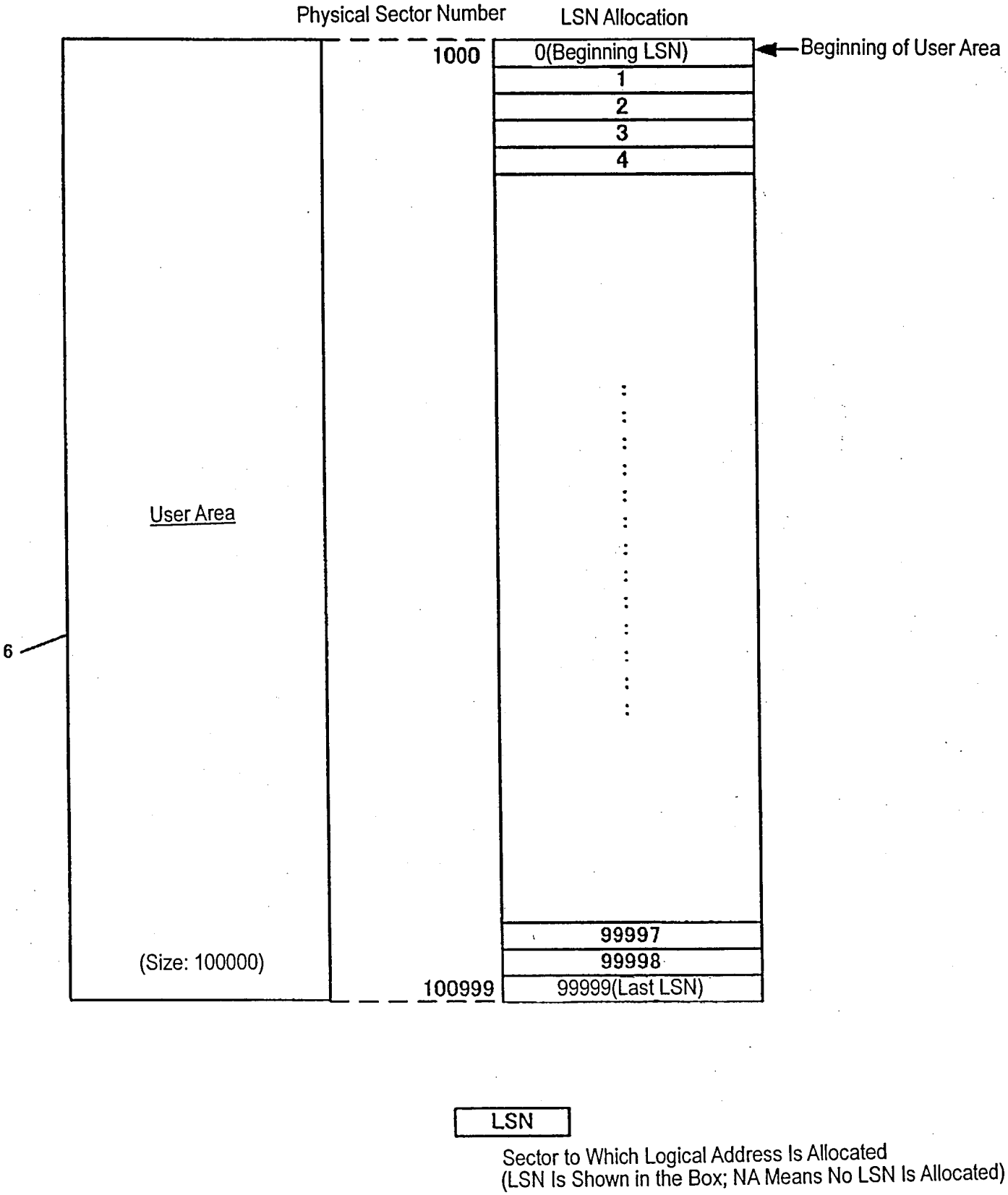

Physical Sector Number
LSN Allocation
1000
0(Beginning LSN)
Beginning of User Area
1
2
3
4
User Area
6
(Size: 100000)
99997
99998
100999
99999(Last LSN)
LSN
Sector to Which Logical Address Is Allocated
(LSN Is Shown in the Box; NA Means No LSN Is Allocated)

FIG.13

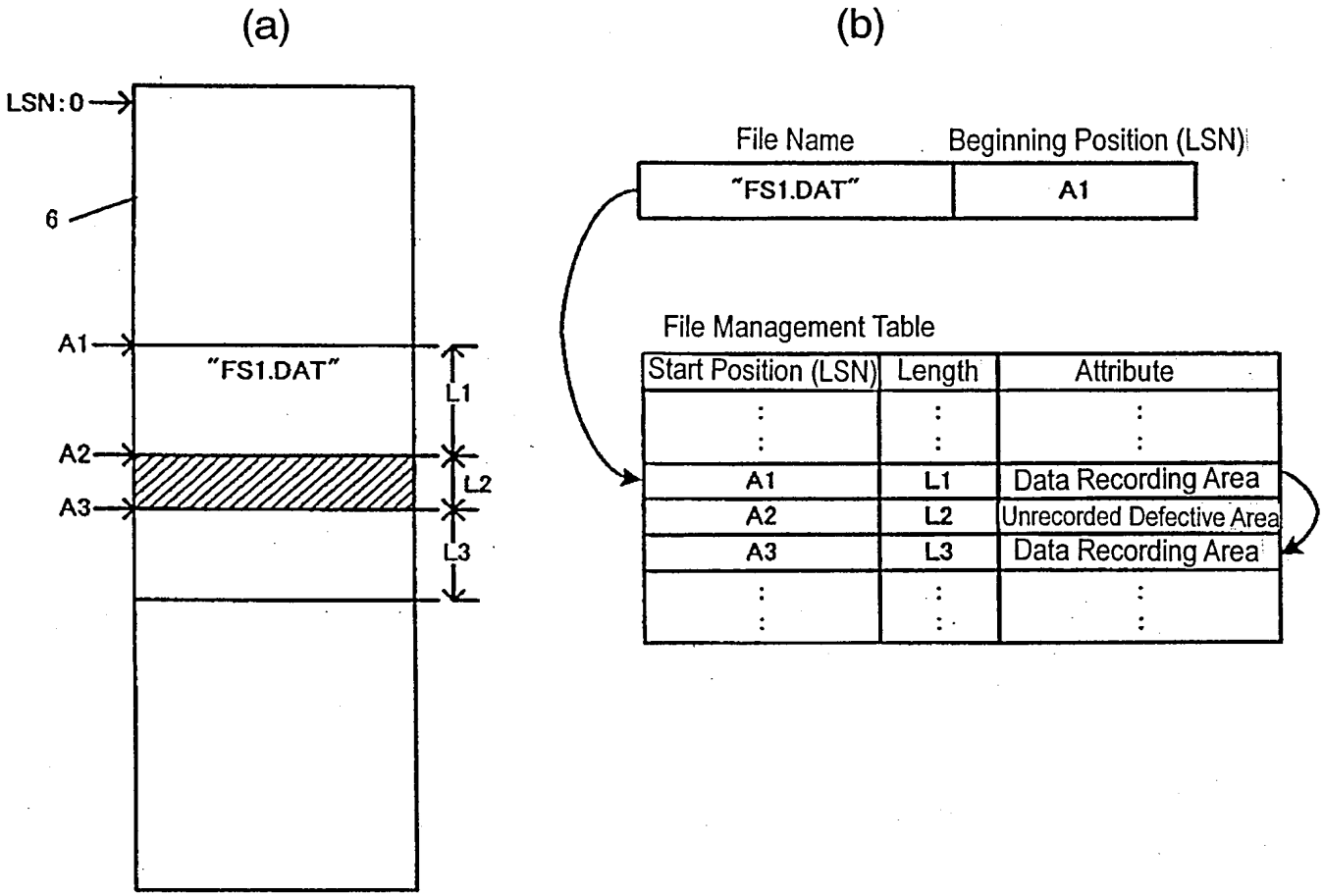


FIG.14

Disk Type		Capacity	Form
Medium DA		4.7GB	Bear Disk
Medium DB	Disk DB-1	25GB	Cartridge Disk
	Disk DB-2		Bear Disk

FIG.15

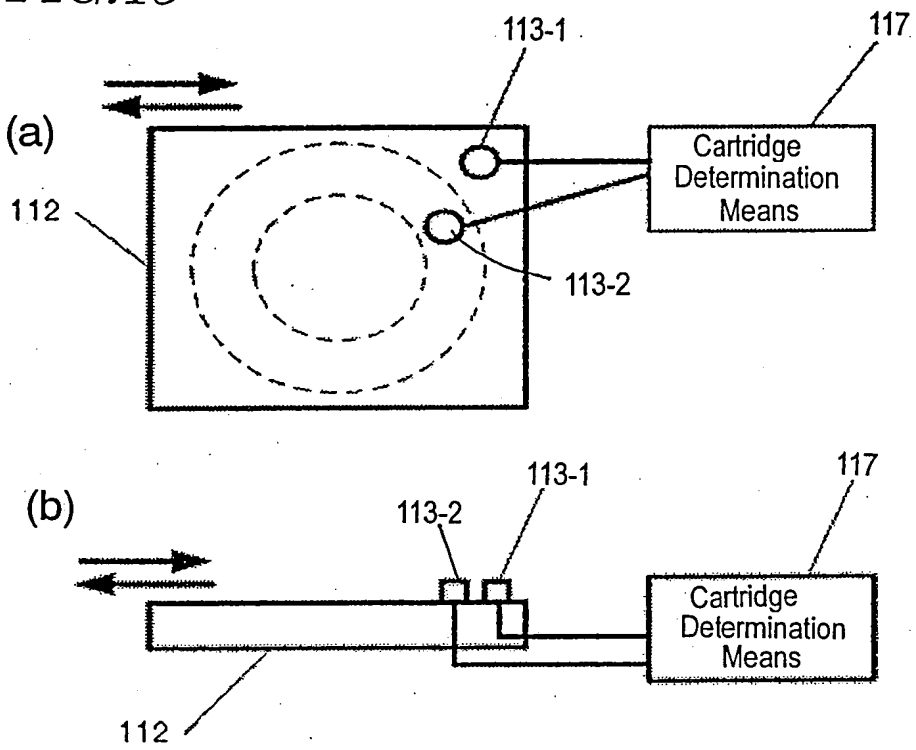
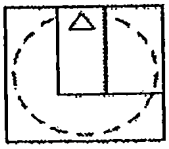
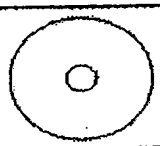
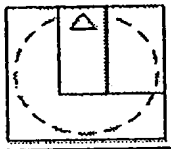
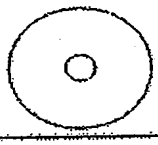


FIG.16

Disk Type		Diameter/Capacity	Form
Medium DB	Disk DB-1	12cm/25GB	Cartridge Disk
	Disk DB-2		Bear Disk
Medium DC	Disk DC-1	8cm/8GB	Cartridge Disk
	Disk DC-2		Bear Disk

FIG.17

Disk Type		Recording Layer/Capacity	Form
Medium DB	Disk DB-1	Single Layered / 25GB	Cartridge Disk 
	Disk DB-2		Bear Disk 
Medium DD	Disk DD-1	Double Layered / 50GB	Cartridge Disk 
	Disk DD-2		Bear Disk 

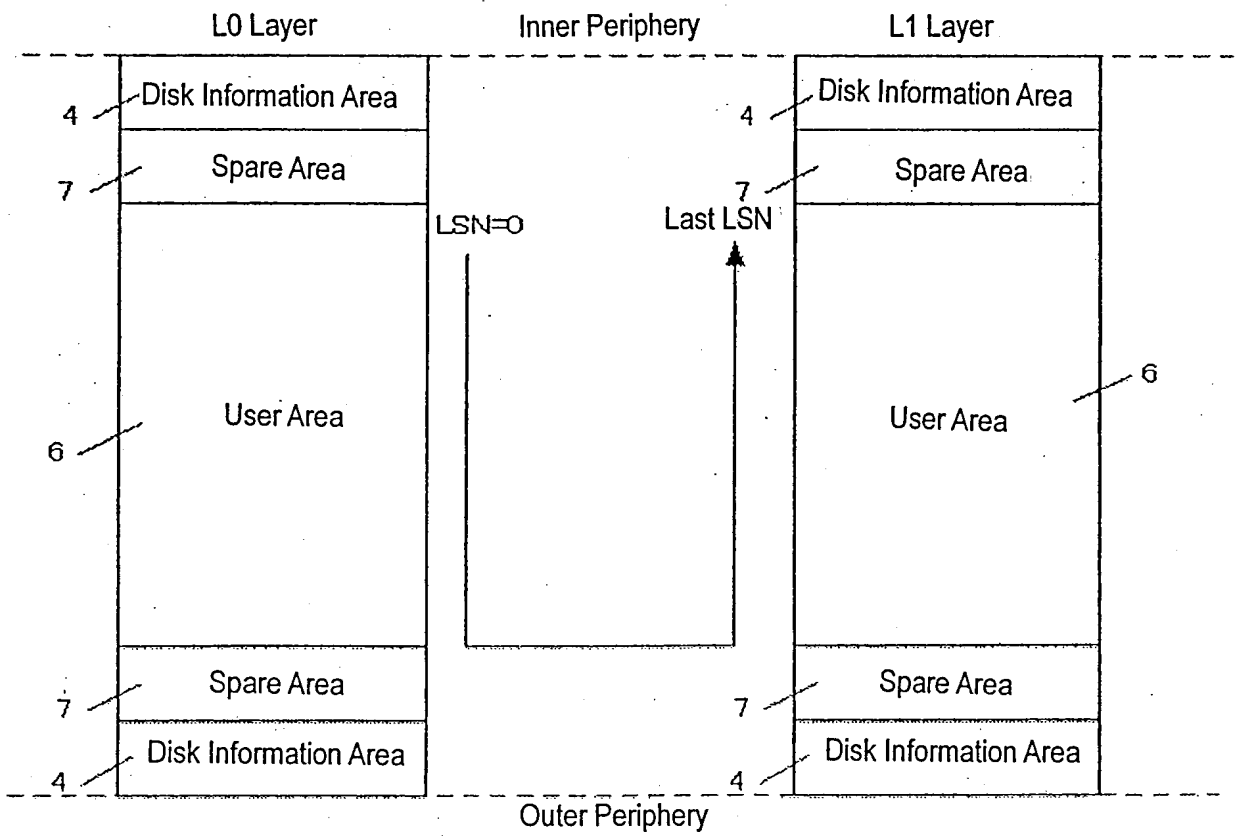



FIG.18